

Keyes Cloud Solutions

White Paper: Migrating Local Web Servers to Google Cloud Platform (GCP)

Executive Summary

Organizations today face mounting challenges with maintaining on-premises infrastructure. Local web servers are costly to scale, prone to downtime, and often lack the security and agility required in a modern digital landscape. Keyes Cloud Solutions specializes in seamless cloud migrations, enabling businesses to unlock the performance, security, and scalability of Google Cloud Platform (GCP) while ensuring business continuity throughout the transition.

Key Challenges We Solve

- Protection of Intellectual Property (IP): Secure data against loss, unauthorized access, and theft.
- Onsite Hardware Costs: Reduce expenses tied to procurement, scaling, and ongoing maintenance.
- Workforce Mobility: Provide secure access for modern, mobile, and remote teams.
- Content Growth: Handle large datasets, 3D models, and graphics-intensive workloads.
- Global Collaboration: Enable geographically distributed teams to work together in real time.
- Performance Bottlenecks: Mitigate latency and scale performance to meet demand.

Benefits of Cloud Migration

- Increased Productivity: Simplify IT operations and accelerate application delivery.
- Enterprise-Grade Security: Protect IP with GCP's advanced security, IAM, and compliance features.
- Scalability & Agility: Adapt infrastructure quickly to evolving workloads while reducing costs.
- Cloud Optimization: Co-locate compute, storage, and graphics workloads for maximum performance.

Our Migration Framework

- Estimate – Define scope, resources, and cost projections.
- Discover – Inventory current systems, dependencies, and workloads.
- Assess – Identify gaps in infrastructure, security, and compliance.
- Plan – Select the right migration strategy: Rehost, Replatform, Refactor.
- Migrate – Execute migration with dedicated specialists (Security, Networking, Cost Control, Monitoring).
- Pilot & Validate – Use expert pilot team (Infra, Database, Software, Security, Architects, Analysts).

Practical Steps: Migrating a Web Server to GCP

- Provision Hosting Environment – Cloud Run for containerized apps or Compute Engine for traditional servers.
- Migrate the Web Server – Containerize or rehost existing workloads.
- Configure Domain & DNS – Add CNAME record pointing to GCP domain mapping.
- Enable SSL/TLS – Use GCP-managed certificates.
- Optimize – Integrate Cloud CDN, Monitoring, IAM.

Why Keyes Cloud Solutions?

We combine technical depth with business focus. Our tailored approach ensures migrations are secure, cost-effective, and future-proof. By leveraging GCP's cutting-edge services and our dedicated pilot team, businesses minimize disruption while maximizing the value of their cloud investment.